

**Table S3. Strains and plasmids used in this study**

<b>Strain</b>	<b>Description</b>	<b>Source</b>
MG1655	Wild-type <i>E. coli</i> K-12	D. Jin, NCI
DJ480	MG1655 $\Delta$ <i>lac</i> X74	D. Jin, NCI
JH111	$\Delta$ <i>sgrS</i> , $\lambda$ attB::lacIq, tetR(ep), spR	(37)
PM1205	lacI::PBAD:cat-sacB:lacZ, $\Delta$ <i>araBAD</i> , <i>araC</i> +, mal::lacIq, mini $\lambda$ tet; grow at 30°C	(29)
AK250	$\Delta$ <i>rydC</i> ::kan, $\lambda$ attB::lacIq	This study
AK27	pBAD-212UTR- <i>cfa</i> '-l <i>acZ</i>	This study
AK28	pBAD-34UTR- <i>cfa</i> '-l <i>acZ</i>	This study
AK42	pBAD-52UTR- <i>yejA</i> '-l <i>acZ</i>	This study
AK66	Hfq3XFLAG, me131::kan	This study
AK99	pBAD-148UTR- <i>csgD</i> '-l <i>acZ</i>	This study
AK106	pBAD-100UTR- <i>pheA</i> (mut-67)'-l <i>acZ</i>	This study
AK109	pBAD-100UTR- <i>pheA</i> '-l <i>acZ</i>	This study
AK112	pBAD-110UTR- <i>lldP</i> '-l <i>acZ</i>	This study
AK113	pBAD-30UTR- <i>trpE</i> '-l <i>acZ</i>	This study
AK115	pBAD-40UTR- <i>yibT</i> '-l <i>acZ</i>	This study
AK119	pBAD-79UTR- <i>moaB</i> '-l <i>acZ</i>	This study
AK121	pBAD-30UTR- <i>trpE</i> (mut-20)'-l <i>acZ</i>	This study
AK123	pBAD-62UTR- <i>yhjD</i> '-l <i>acZ</i>	This study
AK124	pBAD-20UTR- <i>araH</i> '-l <i>acZ</i>	This study
AK125	pBAD-43UTR- <i>purK</i> '-l <i>acZ</i>	This study
AK127	pBAD-74UTR- <i>cysQ</i> '-l <i>acZ</i>	This study
AK128	pBAD-39UTR- <i>grpE</i> '-l <i>acZ</i>	This study
AK129	pBAD-137UTR- <i>ldtD</i> '-l <i>acZ</i>	This study
AK130	pBAD-139UTR- <i>lldR</i> '-l <i>acZ</i>	This study
AK131	pBAD-30UTR- <i>trunc_trpE</i> '-l <i>acZ</i>	This study
AK132	pBAD-28UTR- <i>ygaU</i> '-l <i>acZ</i>	This study
AK133	pBAD-30UTR- <i>moaC</i> '-l <i>acZ</i>	This study
<b>Plasmid</b>		
pBRCS12	pHDB3, P <sub>LlacO</sub> , vector control	Wadler and Vanderpool 2009
pLAK1	pHDB3, P <sub>LlacO</sub> - <i>rydC</i>	This study
pLAK2	pHDB3, P <sub>LlacO</sub> - <i>rydC3</i>	This study
pLAK3	pHDB3, P <sub>LlacO</sub> - <i>rydC5</i>	This study
pLAK4	pHDB3, P <sub>LlacO</sub> - <i>rydC345</i>	This study
pLAK5	pHDB3, P <sub>LlacO</sub> - <i>rydC-MS2</i>	This study